

REVIEWED FOR
DESIGN CRITERIA
ONLY

△ Indicates left end of truss

Drawing is not to scale u.n.o.

Dashed walls indicate a non-bearing wall

Client: Walk In - Mayer

Job Name: Yavapai County

Job #: 105780

Location: , Prescott AZ

1 bedroom plan

By signing below, I agree that I have reviewed this layout and the attached truss drawings and found them to be in conformance to my needs for this project, even if it they have deviated from the plans.

Signed: _____

Date: _____

Disclaimer: This Truss Placement Diagram was not created by an engineer, but rather by the Ballard Truss Staff and is purely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the Truss Design Drawings which may be sealed by the Truss Designer.



BALLARD TRUSS



MiTek USA, Inc.

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 105780

Yavapai County 1 Bedroom

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Ballard-Mesa, Snow.

Pages or sheets covered by this seal: R64673571 thru R64673589

My license renewal date for the state of Arizona is March 31, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.



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December 8, 2020

Dyer, Cecil

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673571
105780	A1	Common	3	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:37 2020 Page 1
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2-0-0	4-3-0	4-3-0	3-0-0	3-0-0	4-3-0	4-3-0

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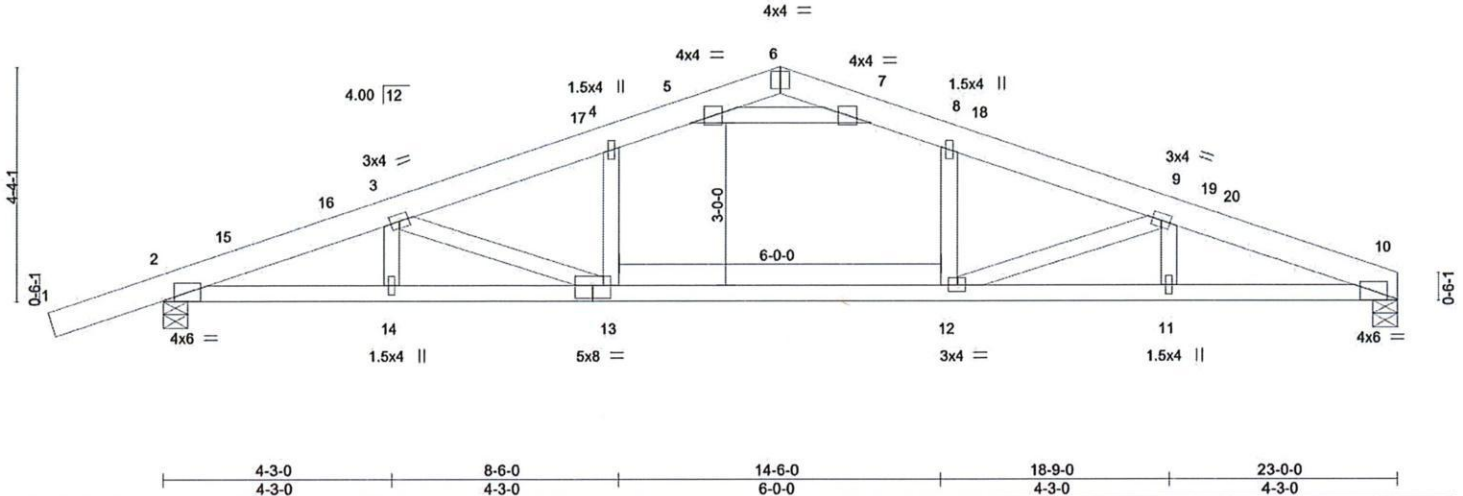


Plate Offsets (X,Y)-- [2:0-2-6,Edge], [10:0-2-6,Edge], [13:0-3-12,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.54	Vert(LL)	-0.34	11-12	>804	MT20	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.44	11-12	>612		
TCDL 10.0	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.10	10	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-SH						
BCDL 10.0								Weight: 100 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 10=0-5-8, 2=0-5-8
Max Horz 2=95(LC 18)
Max Uplift 10=-97(LC 11), 2=-209(LC 10)
Max Grav 10=1502(LC 22), 2=1749(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3542/291, 3-4=-2697/221, 4-5=-2484/235, 7-8=-2478/242, 8-9=-2718/237,
9-10=-3684/362
BOT CHORD 2-14=-223/3236, 13-14=-223/3236, 12-13=-101/2486, 11-12=-290/3403, 10-11=-290/3403
WEBS 8-12=-5/431, 9-12=-1127/254, 4-13=0/387, 3-13=-973/210, 5-7=-2558/273

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Encl. MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 11-6-0, Exterior(2R) 11-6-0 to 15-0-0, Interior(1) 15-0-0 to 22-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces. MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) 150.0lb AC unit load placed on the top chord, 11-6-0 from left end, supported at two points, 3-0-0 apart.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 10 and 209 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673572
105780	A2	HIP	2	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:39 2020 Page 1

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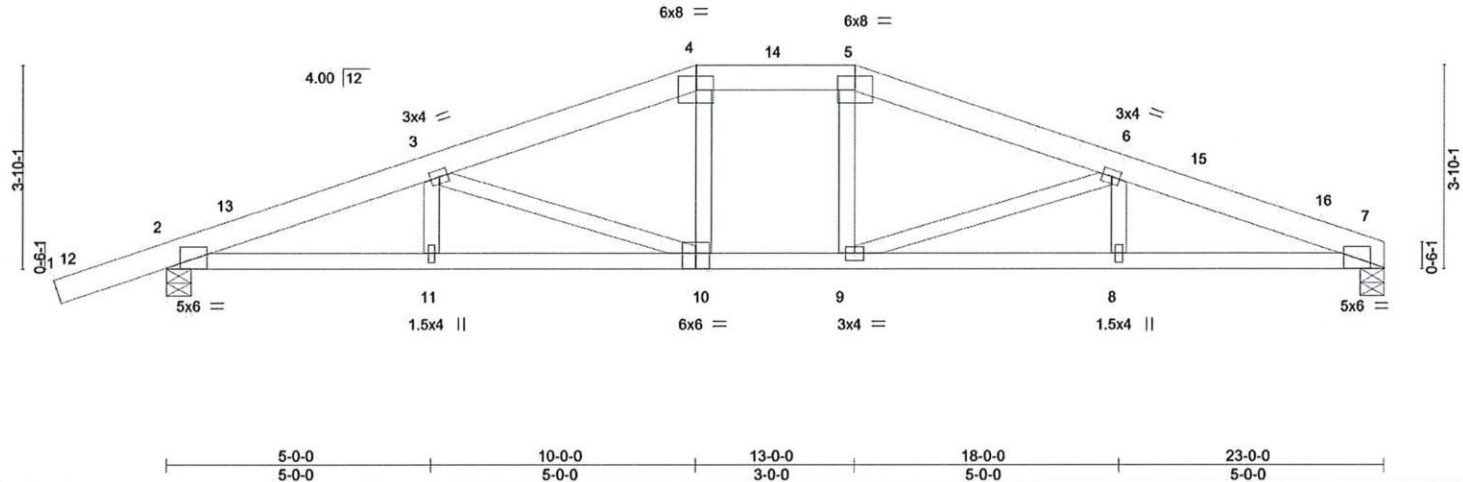


Plate Offsets (X,Y)-- [2:0-3-2,Edge], [7:0-3-2,Edge], [10:0-3-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.23	8-9	>999	MT20	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.31	8-9	>861		
TCDL 10.0	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.12	7	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-SH					Weight: 100 lb	FT = 10%
BCDL 10.0									

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-12 oc bracing.

REACTIONS.

(size) 7=0-5-8, 2=0-5-8
Max Horz 2=86(LC 14)
Max Uplift 7=183(LC 11), 2=295(LC 10)
Max Grav 7=1738(LC 35), 2=2119(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3846/595, 3-4=-2852/500, 4-5=-2613/508, 5-6=-2857/509, 6-7=-3984/610
BOT CHORD 2-11=-510/3469, 10-11=-510/3469, 9-10=-346/2613, 8-9=-528/3647, 7-8=-528/3647
WEBS 3-10=-1010/186, 4-10=-4/405, 5-9=-22/445, 6-9=-1155/221

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2E) 10-0-0 to 8-0-0, Exterior(2R) 13-0-0 to 18-0-0, Interior(1) 18-0-0 to 22-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 7 and 295 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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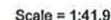
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
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8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:40 2020 Page 1
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8.430 s Nov 30 2020 MITek Industries, Inc. Tue Dec 8 08:06:40 2020 Page 1
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BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 3-2-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -2.0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2R) 8-0-0 to 19-11-6, Interior(1) 12-11-6 to 15-0-0, Exterior(2R) 15-0-0 to 19-11-6, Interior(1) 19-11-6 to 22-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip bolts 3/8"
- 2) TOLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cf=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 5 and 307 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1.



December 8, 2020



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is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
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Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673574
105780	A4	GIRDER	2	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:42 2020 Page 1
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-2-0-0	3-0-0	6-0-0	11-6-0	17-0-0	20-0-0	23-0-0
2-0-0	3-0-0	3-0-0	5-6-0	5-6-0	3-0-0	3-0-0

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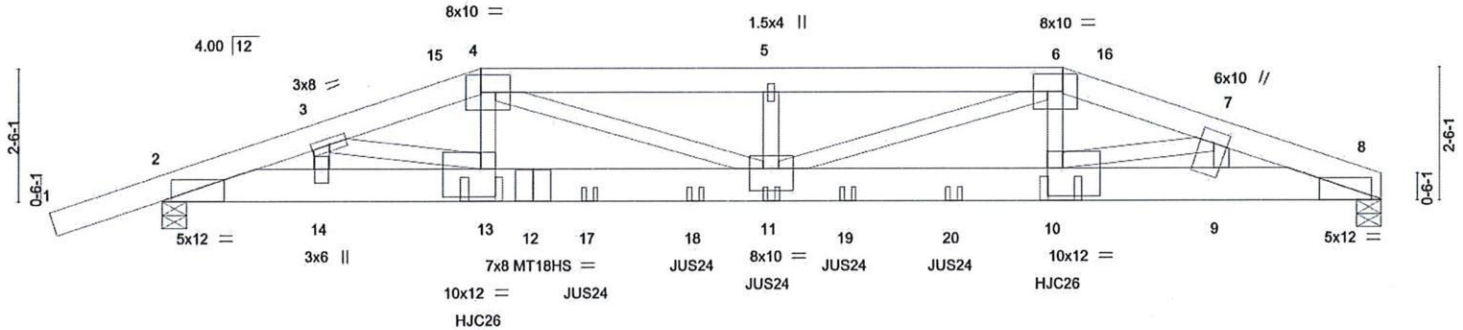


Plate Offsets (X,Y)--	[2:0-2-0,Edge], [4:0-6-12,0-4-0], [6:0-6-12,0-4-0], [7:0-2-12,0-3-0], [8:0-2-0,Edge], [10:0-3-8,0-6-4], [11:0-5-0,0-5-0], [13:0-3-8,0-6-4]
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LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.87	Vert(LL)	-0.50	11	>544	240	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.68	Vert(CT)	-0.65	11	>410	180	MT18HS	244/190
TCDL 10.0	Lumber DOL 1.15	WB 0.78	Horz(CT)	0.11	8	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-SH							
BCDL 10.0	Code IRC2018/TPI2014							Weight: 144 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except*
4-11,6-11: 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 2=0-5-8
Max Horz 2=69(LC 46)
Max Uplift 8=-496(LC 7), 2=-608(LC 6)
Max Grav 8=3447(LC 18), 2=3694(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-8256/1098, 3-4=-9800/1378, 4-5=-11883/1700, 5-6=-11883/1700, 6-7=-9887/1426,
7-8=-8456/1210
BOT CHORD 2-14=-1029/7708, 13-14=-1029/7708, 11-13=-1284/9418, 10-11=-1305/9502,
9-10=-1112/7912, 8-9=-1112/7912
WEBS 3-14=-883/192, 3-13=-254/1815, 4-13=-161/1604, 4-11=-405/2617, 5-11=-734/216,
6-11=-385/2586, 6-10=-182/1669, 7-10=-249/1757, 7-9=-825/162

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 496 lb uplift at joint 8 and 608 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 10-11-4 oc max. starting at 6-0-6 from the left end to 16-11-10 to connect truss(es) to front face of bottom chord.
- Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 14-11-4 to connect truss(es) to front face of bottom chord.

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Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673574
105780	A4	GIRDER	2	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:42 2020 Page 2
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NOTES-

- 14) Fill all nail holes where hanger is in contact with lumber.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-100, 4-6=-100, 6-8=-100, 2-8=-20

Concentrated Loads (lb)

Vert: 13=-945(F) 11=-407(F) 10=-945(F) 17=-407(F) 18=-407(F) 19=-407(F) 20=-407(F)

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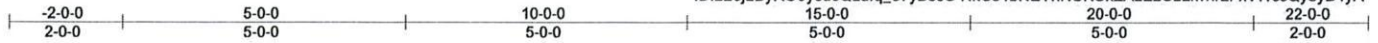
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
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Job 105780	Truss B1	Truss Type COMMON	Qty 1	Ply 1	Yavapai County 1 Bedroom	R64673575
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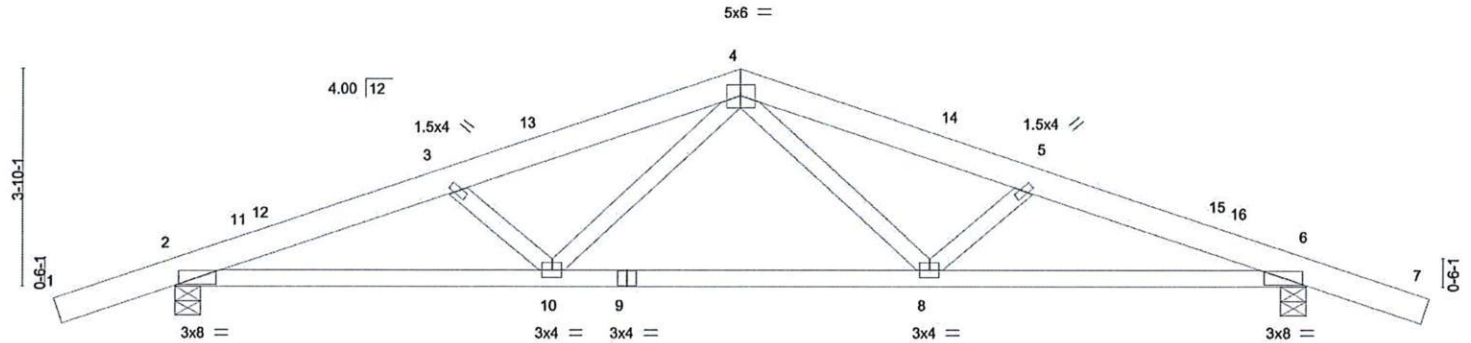
Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:43 2020 Page 1

ID:226jLByRO9ycucQLulq_87yB5JS-NkC91bNEynNUKUXZA2ZzCLLkvrzFxV7rcsQyoyB4yA



Scale = 1:38.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.11 8-10 >999 240	MT20		185/144	
(Roof Snow=40.0)		Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.19 8-10 >999 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.06 6 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							
BCDL	10.0										

Weight: 87 lb FT = 10%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 6=0-5-8
Max Horz 2=75(LC 18)
Max Uplift 2=-260(LC 10), 6=-260(LC 11)
Max Grav 2=1521(LC 21), 6=1521(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2795/439, 3-4=-2294/377, 4-5=-2294/376, 5-6=-2795/438
BOT CHORD 2-10=-324/2525, 8-10=-181/1613, 6-8=-344/2525
WEBS 4-8=-52/766, 5-8=-626/176, 4-10=-51/766, 3-10=-626/175

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2R) 10-0-0 to 13-6-0 Interior(1) 13-6-0 to 22-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; G=1.0
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2 and 260 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REVIEWED FOR
DESIGN CRITERIA
ONLY



December 8, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 105780	Truss B2	Truss Type HIP	Qty 1	Ply 1	Yavapai County 1 Bedroom	R64673576
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Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:44 2020 Page 1

ID:226jLByRO9ycucQLulq_87yB5JS-rwmXEwOsJ5VlyeWljm4CIYUqK59K_RhH4GczVEyB4y9

Job Reference (optional)

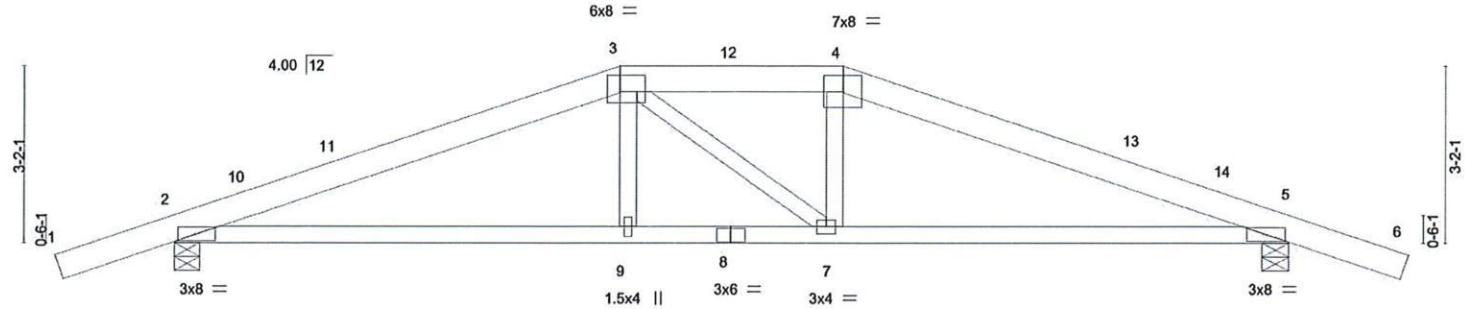
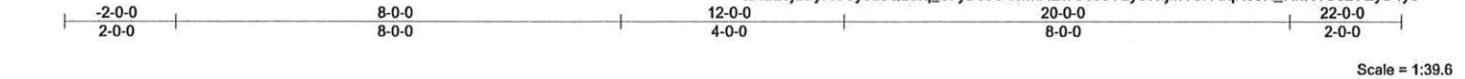


Plate Offsets (X,Y)--	[3:0-5-4,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2'-0'-0	TC 0.62	in (loc) l/defl L/d	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.14 2-9 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.14	Vert(CT) -0.26 2-9 >912 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.07 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 81 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins.
BOT CHORD 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud	

REACTIONS.	(size) 2=0-5-8, 5=0-5-8
	Max Horz 2=63(LC 14)
	Max Uplift 2=-274(LC 10), 5=-274(LC 11)
	Max Grav 2=1793(LC 35), 5=1793(LC 35)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2524/476, 3-4=-2194/522, 4-5=-2527/499
BOT CHORD	2-9=-334/2184, 7-9=-331/2191, 5-7=-367/2187
WEBS	3-7=-314/321, 4-7=-47/293

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2E) 8-0-0 to 16-11-6, Exterior(2R) 12-0-0 to 16-11-6, Interior(1) 16-11-6 to 22-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 2 and 274 lb uplift at joint 5.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REVIEWED FOR DESIGN CRITERIA ONLY



Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673577
105780	B3	Hip Girder	1	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MITek Industries, Inc. Tue Dec 8 08:06:46 2020 Page 1
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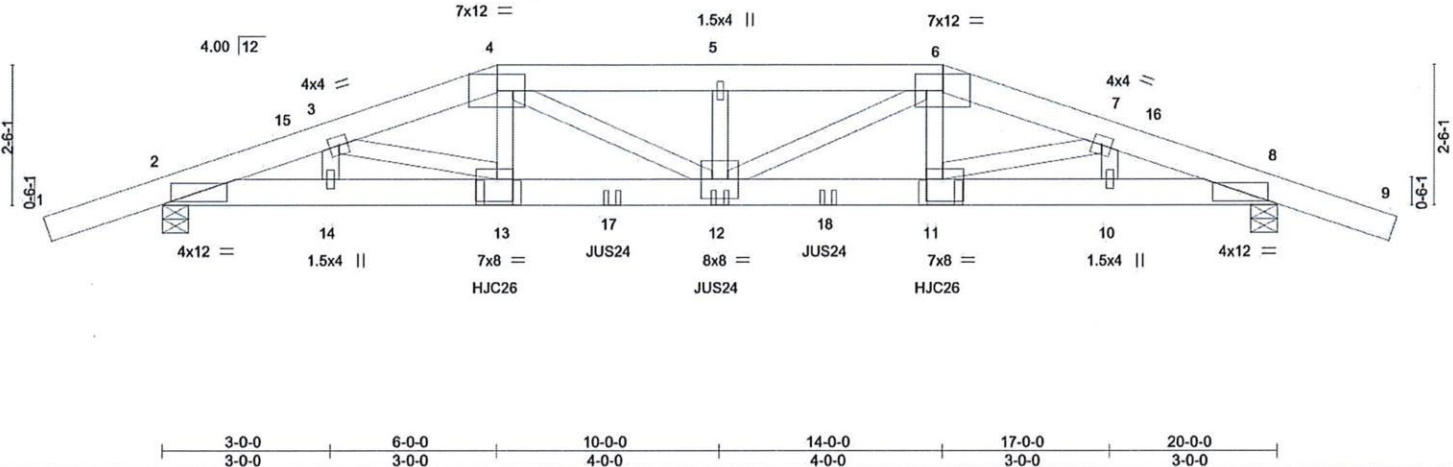


Plate Offsets (X,Y)--		[11:0-3-8,0-4-12], [13:0-3-8,0-4-12]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 40.0	2-0-0	TC 0.51	in (loc) l/defl L/d
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.33 12 >717 240
TCDL 10.0	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.44 12 >536 180
BCLL 0.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.10 8 n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		
			PLATES MT20
			GRIP 185/144
			Weight: 108 lb FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x6 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 2-9-2 oc purlins.
BOT CHORD 2x6 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud	

REACTIONS.	(size) 2=0-5-8, 8=0-5-8
	Max Horz 2=-51(LC 7)
	Max Uplift 2=-511(LC 6), 8=-511(LC 7)
	Max Grav 2=3137(LC 31), 8=3137(LC 31)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-6773/849, 3-4=-7491/1020, 4-5=-8241/1157, 5-6=-8241/1157, 6-7=-7491/1021, 7-8=-6773/852
BOT CHORD	2-14=-769/6249, 13-14=-769/6249, 12-13=-921/7183, 11-12=-888/7183, 10-11=-737/6249, 8-10=-737/6249
WEBS	3-14=-385/117, 3-13=-179/1089, 4-13=-119/1227, 4-12=-221/1451, 5-12=-502/157, 6-12=-221/1451, 6-11=-120/1227, 7-11=-181/1089, 7-10=-385/116

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C Endgss; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 511 lb uplift at joint 2 and 511 lb uplift at joint 8.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 7-11-4 oc max. starting at 6-0-6 from the left end to 13-11-10 to connect truss(es) to front face of bottom chord.
 - 12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 1-11-4 oc max. starting at 8-0-12 from the left end to 11-11-4 to connect truss(es) to front face of bottom chord.
 - 13) Fill all nail holes where hanger is in contact with lumber.
- On the CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**REVIEWED FOR
DESIGN CRITERIA
ONLY**



Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673577
105780	B3	Hip Girder	1	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-100, 4-6=-100, 6-9=-100, 2-8=-20

Concentrated Loads (lb)

Vert: 13=-945(F) 12=-407(F) 11=-945(F) 17=-407(F) 18=-407(F)

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Roseville, CA 95661

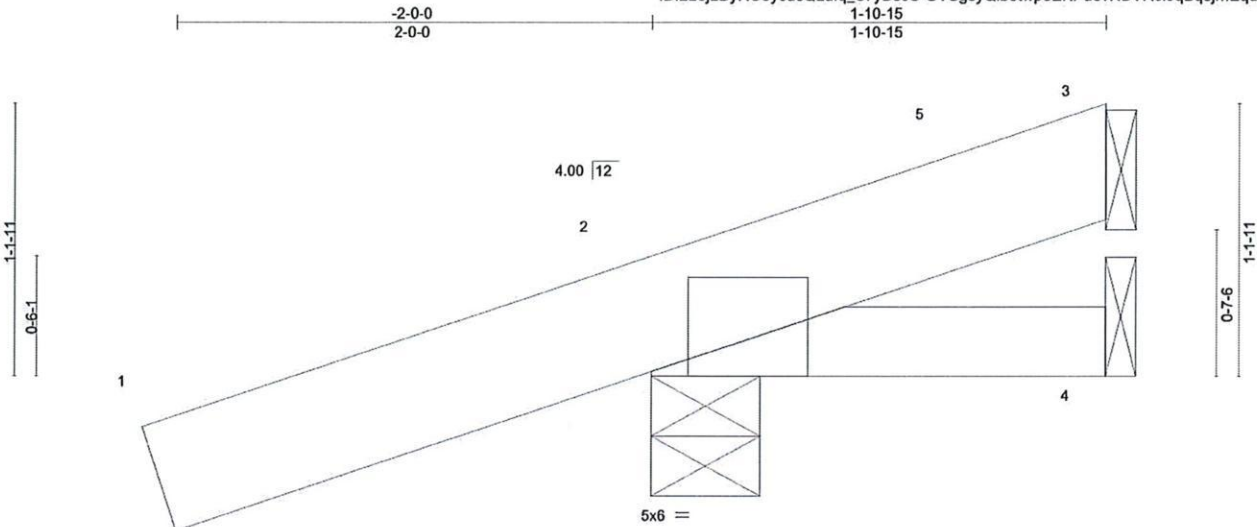
Job 105780	Truss J2	Truss Type Jack-Open	Qty 12	Ply 1	Yavapai County 1 Bedroom	R64673578
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Ballard Truss LLC, Snowflake, AZ - 85937,

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ID:226jLByRO9ycucQLulq_87yB5JS-GVSgsyQlb0twp5EKpuevNBVRclJqBqejmEqd5ZyB4y6

Job Reference (optional)



Scale = 1:9.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.00	2	>999	240	MT20	197/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	2-4	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P						Weight: 10 lb	FT = 10%
BCDL 10.0										

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=66(LC 10)
Max Uplift 3=199(LC 20), 2=168(LC 10)
Max Grav 3=25(LC 10), 2=636(LC 20), 4=37(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhang non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 3 and 168 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REVIEWED FOR
DESIGN CRITERIA
ONLY



December 8, 2020

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673579
105780	J4	Jack-Open	10	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:47 2020 Page 1
ID:226jLBByRO9ycucQLulq_87yB5JS-GVSgsyQlb0twp5EKPuevNBVQ?llbBqejmEqd5ZyB4y6

-2-0-0
2-0-0
3-10-15
3-10-15

Scale = 1:12.6

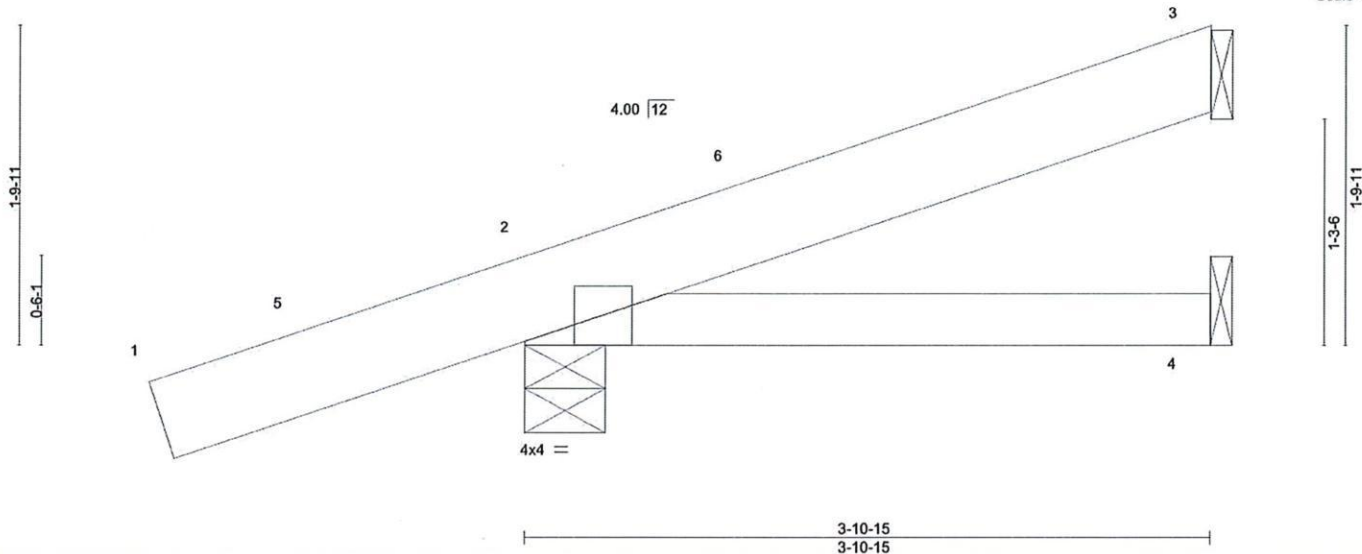


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.01	2-4	>999	240	MT20	197/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.02	2-4	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-P						Weight: 16 lb	FT = 10%
BCDL 10.0										

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=94(LC 10)
Max Uplift 3=-96(LC 20), 2=-164(LC 10)
Max Grav 3=154(LC 21), 2=726(LC 21), 4=72(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 3 and 164 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REVIEWED FOR
DESIGN CRITERIA
ONLY



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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 105780	Truss J4A	Truss Type Jack-Open	Qty 1	Ply 1	Yavapai County 1 Bedroom	R64673580
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Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:48 2020 Page 1
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-2-0-0
2-0-0
3-10-15
3-10-15

Scale = 1:12.6

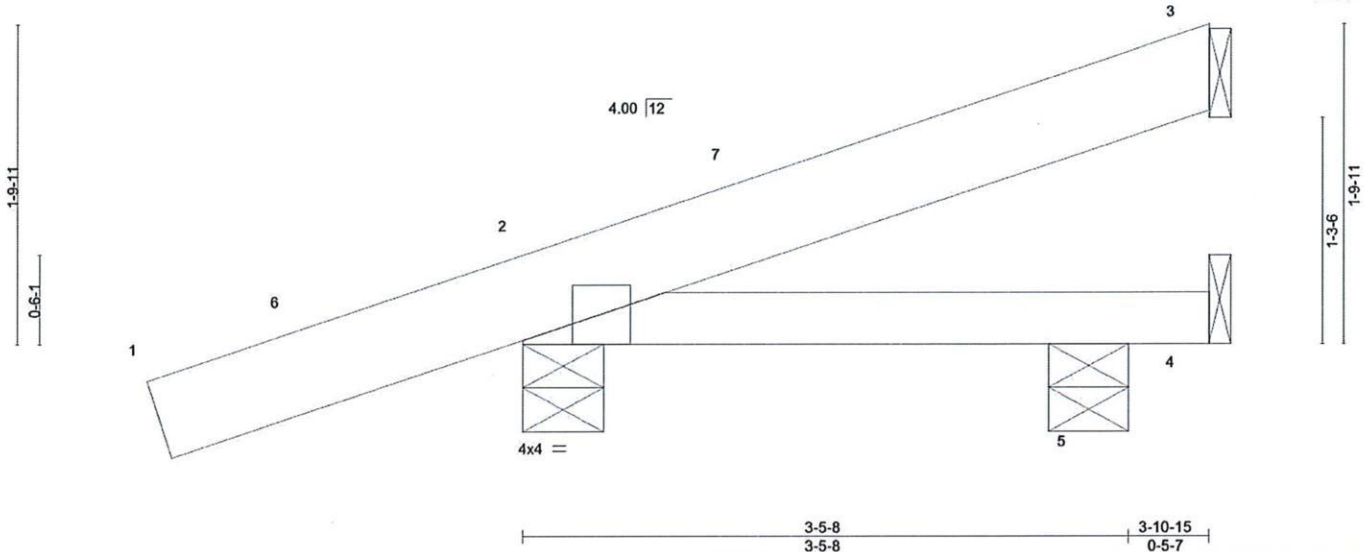


Plate Offsets (X,Y)-- [2:0-3-6,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.00	2-5	>999	240	MT20	197/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	2-5	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P							
BCDL 10.0									Weight: 16 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical, 5=0-5-8
Max Horz 2=94(LC 10)
Max Uplift 3=96(LC 20), 2=172(LC 10), 4=48(LC 5)
Max Grav 3=154(LC 21), 2=714(LC 21), 5=146(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 3, 172 lb uplift at joint 2 and 48 lb uplift at joint 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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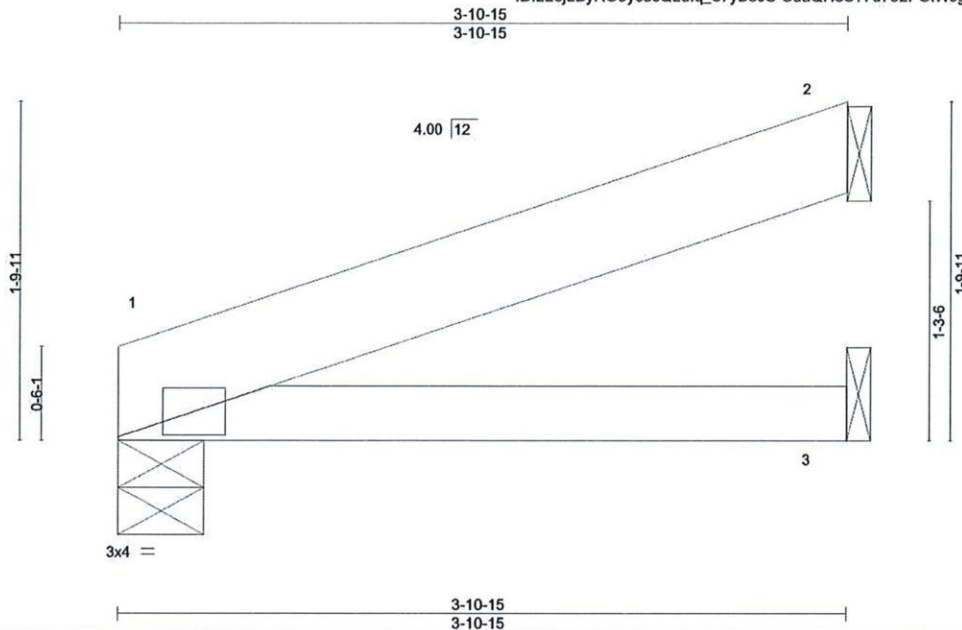


MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673581
105780	J4B	Jack-Open	1	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:49 2020 Page 1
ID:226JLByRO9ycucQLulq_87yB5JS-CuaQHeS77d7e2POWJgNSchoe6_3fj80EYJKASyB4y4



Scale = 1:11.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	-0.01	1-3	>999	240	MT20	197/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.02	1-3	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P						Weight: 12 lb	FT = 10%
BCDL 10.0										

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 2=Mechanical, 3=Mechanical
Max Horz 1=61(LC 10)
Max Uplift 1=-23(LC 10), 2=-68(LC 10)
Max Grav 1=282(LC 20), 2=246(LC 20), 3=72(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-6 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 68 lb uplift at joint 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**REVIEWED FOR
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December 8, 2020

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673582
105780	J6	Jack-Closed	16	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:50 2020 Page 1
ID:226jLBByRO9ycucQLuLg_87yB5JS-g47oV_TduxFVgZzv41Bc_p7x8VI0OAN9SC3liuyB4y3

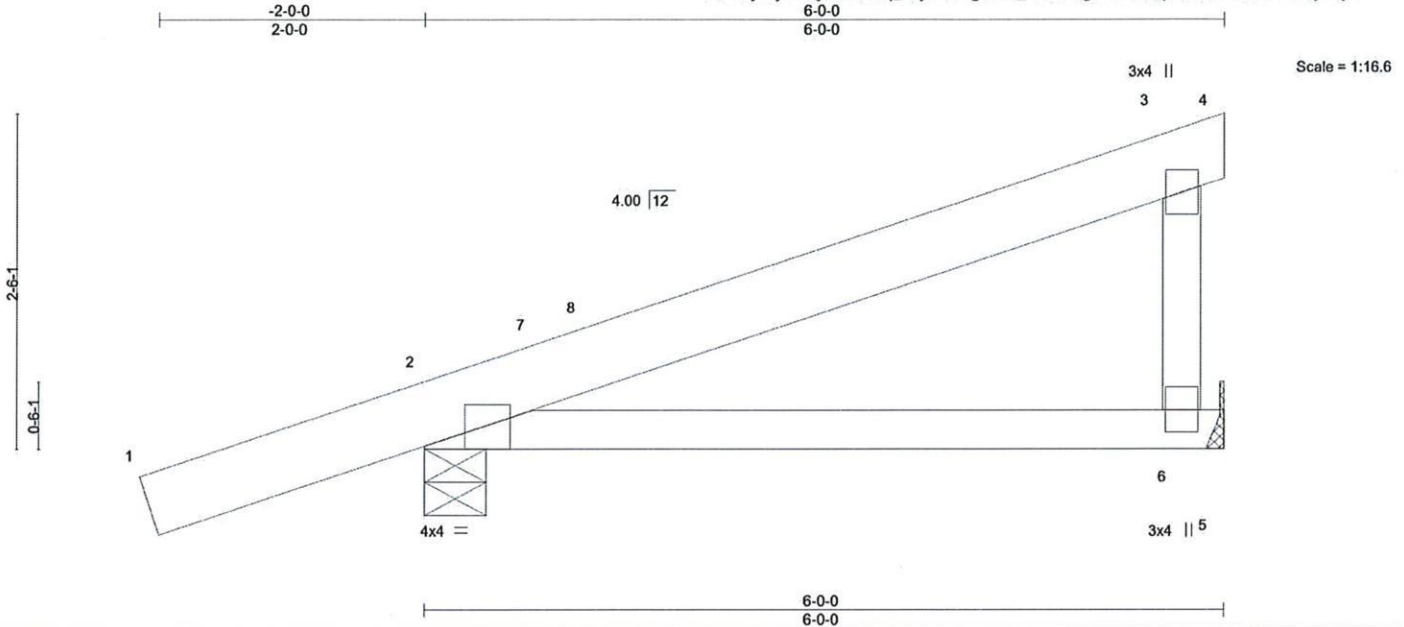


Plate Offsets (X,Y)-- [2:0-3-10,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.05	2-6	>999	240	MT20	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.10	2-6	>664	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	6	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P						Weight: 24 lb	FT = 10%
BCDL 10.0										

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-5-8
Max Horz 2=113(LC 11)
Max Uplift 6=53(LC 14), 2=172(LC 10)
Max Grav 6=427(LC 21), 2=839(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-6=366/245

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 6-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00, Cl=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 6 and 172 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REVIEWED FOR
DESIGN CRITERIA
ONLY



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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673583
105780	J6A	Jack-Closed	3	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:51 2020 Page 1
ID:226jLByRO9ycucQLulq_87yB5JS-8GhAIKTFENLIY5ekirX1g6uvhO7dSIhsorEKyB4y2
6-0-0
6-0-0

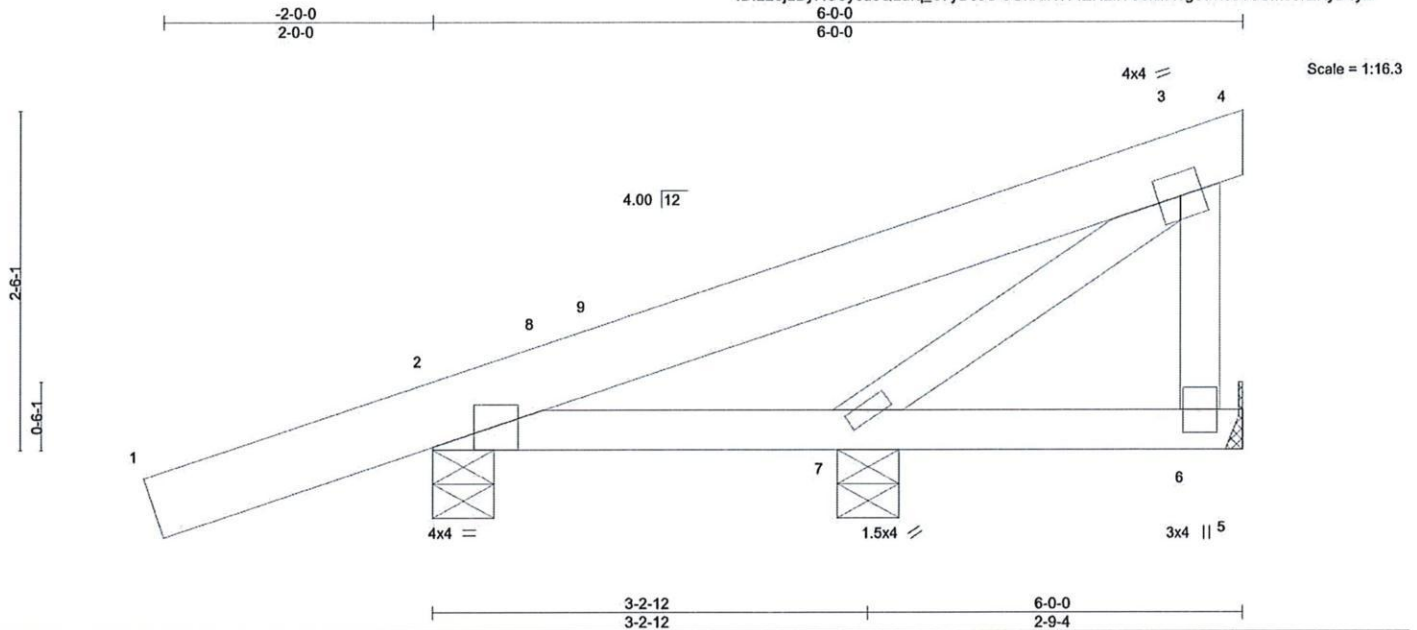


Plate Offsets (X,Y)-- [2:0-3-10,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	-0.00	2-7	>999	240	MT20	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	2-7	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.01	Horz(CT)	-0.00	6	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P							
BCDL 10.0									Weight: 29 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 6=Mechanical, 2=0-5-8, 7=0-5-8
Max Horz 2=113(LC 11)
Max Uplift 6=-76(LC 14), 2=-194(LC 10)
Max Grav 6=380(LC 21), 2=794(LC 21), 7=139(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-6=-353/250

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 6-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00, Cl=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 6 and 194 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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DESIGN CRITERIA
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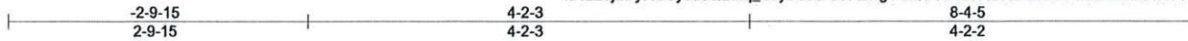
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673584
105780	JC1	MONO GIRDER	5	1	Job Reference (optional)	

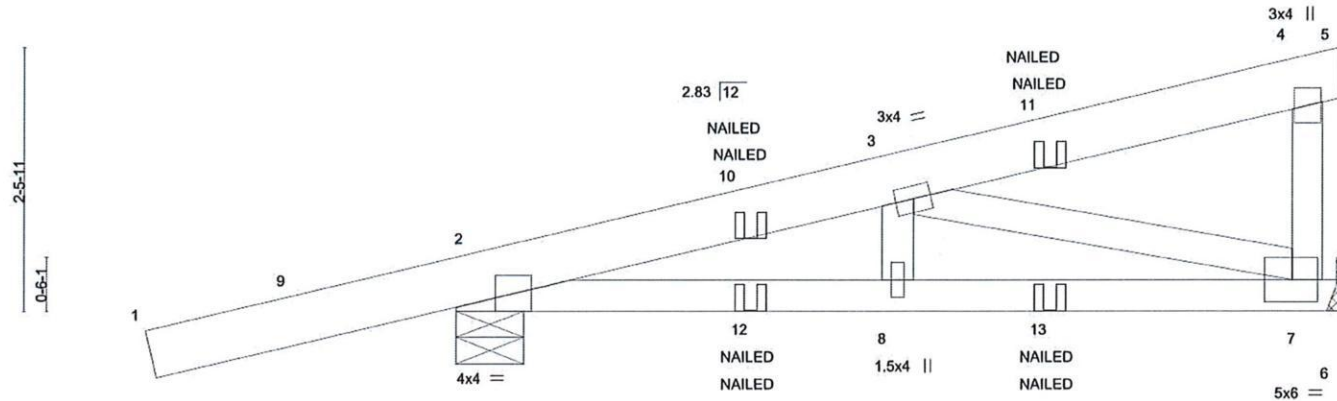
Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MITek Industries, Inc. Tue Dec 8 08:06:52 2020 Page 1

ID:226jLByRO9ycucQLuLq_87yB5JS-cTFZwgUuQYVCvs7HBRD44EDCMJzJs0ZSwWYOnmyB4y1



Scale = 1:20.8



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.02	8	>999	240	MT20	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.20	Vert(CT)	-0.03	7-8	>999	180		
TCDL 10.0	Rep Stress Incr	NO	WB 0.28	Horz(CT)	0.01	7	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P							
BCDL 10.0									Weight: 39 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-7-12
Max Horz 2=106(LC 7)
Max Uplift 7=-47(LC 10), 2=-202(LC 6)
Max Grav 7=567(LC 17), 2=1014(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-862/253, 4-7=-331/73
BOT CHORD 2-8=-320/725, 7-8=-320/725
WEBS 3-7=-754/333

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00, Cl=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 7 and 202 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-100, 4-5=-100, 2-6=-20

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December 8, 2020

Continued on page 2

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MITek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673584
105780	JC1	MONO GIRDER	5	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:52 2020 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 10=68(F=34, B=34) 11=-38(F=-19, B=-19) 13=-16(F=-8, B=-8)

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

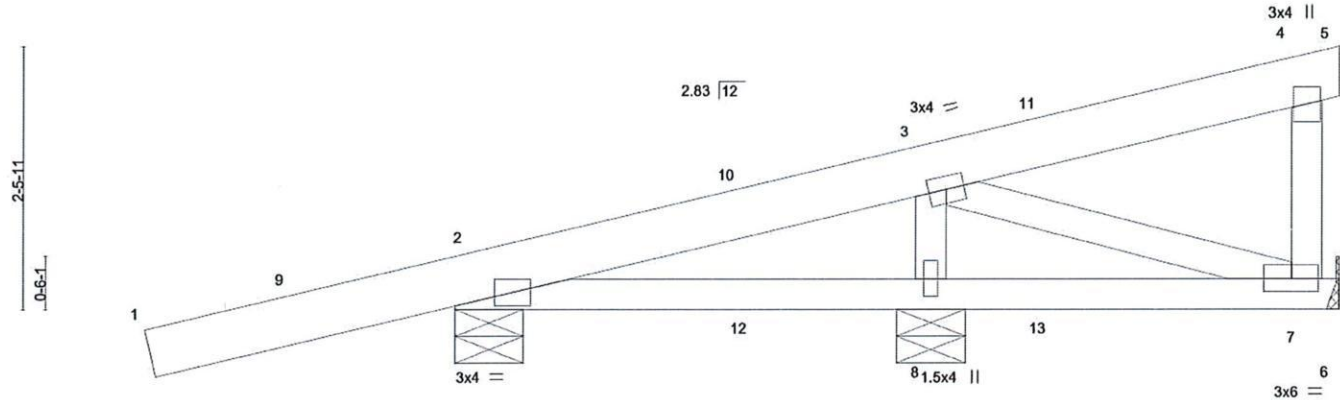
Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673585
105780	JC2	MONO GIRDER	1	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:53 2020 Page 1
ID:226jLByRO9ycucQLuIq_87yB5JS-4fpx7VWBsd3X0iUI9JcSIMMjL0bWCb9AHyJDyB4y0



Scale = 1:20.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.01	MT20		185/144	
(Roof Snow=40.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02				
TCDL	10.0	Rep Stress Incr	NO	WB	0.12	Horz(CT)	-0.00				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P							
BCDL	10.0										
								Weight: 38 lb		FT = 10%	

LUMBER-
TOP CHORD 2x6 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 7=Mechanical, 2=0-7-12, 8=0-7-12
Max Horz 2=106(LC 7)
Max Uplift 7=-73(LC 6), 2=-220(LC 6), 8=-227(LC 16)
Max Grav 7=334(LC 31), 2=896(LC 16), 8=478(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-7=-314/78
WEBS 3-8=-419/287

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.0
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
 - 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Refer to girder(s) for truss to truss connections.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 7, 220 lb uplift at joint 2 and 227 lb uplift at joint 8.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 231 lb up at 2-9-8, 82 lb down and 231 lb up at 2-9-8, and 184 lb down and 81 lb up at 5-7-7, and 98 lb down and 52 lb up at 5-7-7 on top chord, and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 19 lb down at 5-7-7, and 52 lb up at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

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December 8, 2020

Continued on page 2

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 1 Bedroom	R64673585
105780	JC2	MONO GIRDER	1	1	Job Reference (optional)	

Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:53 2020 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-100, 4-5=-100, 2-6=-20

Concentrated Loads (lb)

Vert: 10=68(F=34, B=34) 11=-124(F=-19, B=-105) 13=45(F=52, B=-8)

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 105780	Truss V1	Truss Type DROP GABLE	Qty 1	Ply 1	Yavapai County 1 Bedroom	R64673586
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Ballard Truss LLC, Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:54 2020 Page 1
ID:226jLByRO9ycucQLulq_87yB5JS-ZrNJKLW8y9lw9AHGJsGY9flaf7fMKYolNq1VrfyB4y?

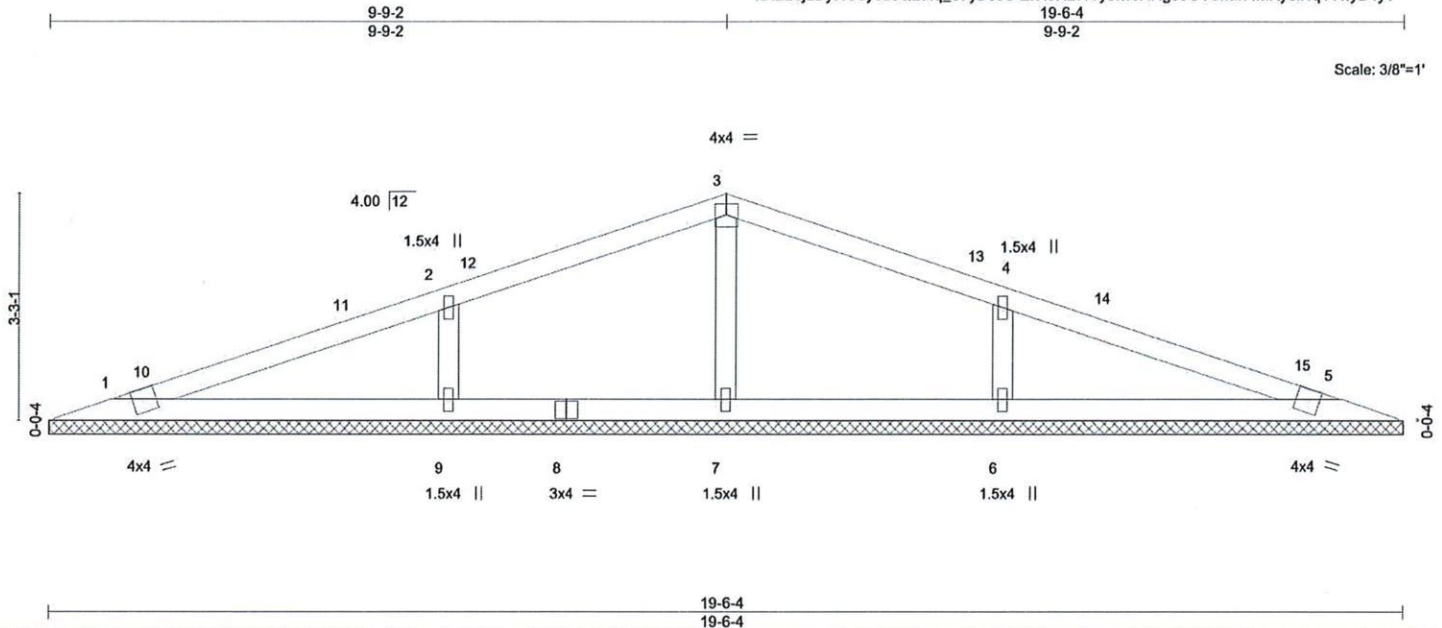


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.44	Vert(LL)	n/a	-	n/a	MT20	185/144
(Roof Snow=40.0)	Plate Grip DOL 1.15	BC 0.22	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.00	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH					Weight: 51 lb	FT = 10%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-6-4.
(lb) - Max Horz 1=-55(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-134(LC 14), 6=-134(LC 15)
Max Grav All reactions 250 lb or less at joint(s) except 1=292(LC 20), 5=292(LC 21), 7=353(LC 1), 9=879(LC 20), 6=880(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-307/69, 2-9=-730/197, 4-6=-730/197

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 4-5-5, Interior(1) 4-5-5 to 9-9-2, Exterior(2R) 9-9-2 to 13-3-2 Interior(1) 13-3-2 to 18-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; G=0.8; I=1.0
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (it=lb) 9=134, 6=134.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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December 8, 2020

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 105780	Truss V2	Truss Type DROP GABLE	Qty 1	Ply 1	Yavapai County 1 Bedroom	R64673587
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Ballard Truss LLC, Snowflake, AZ - 85937,

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Job Reference (optional)

15-6-4
7-9-2

Scale = 1:25.3

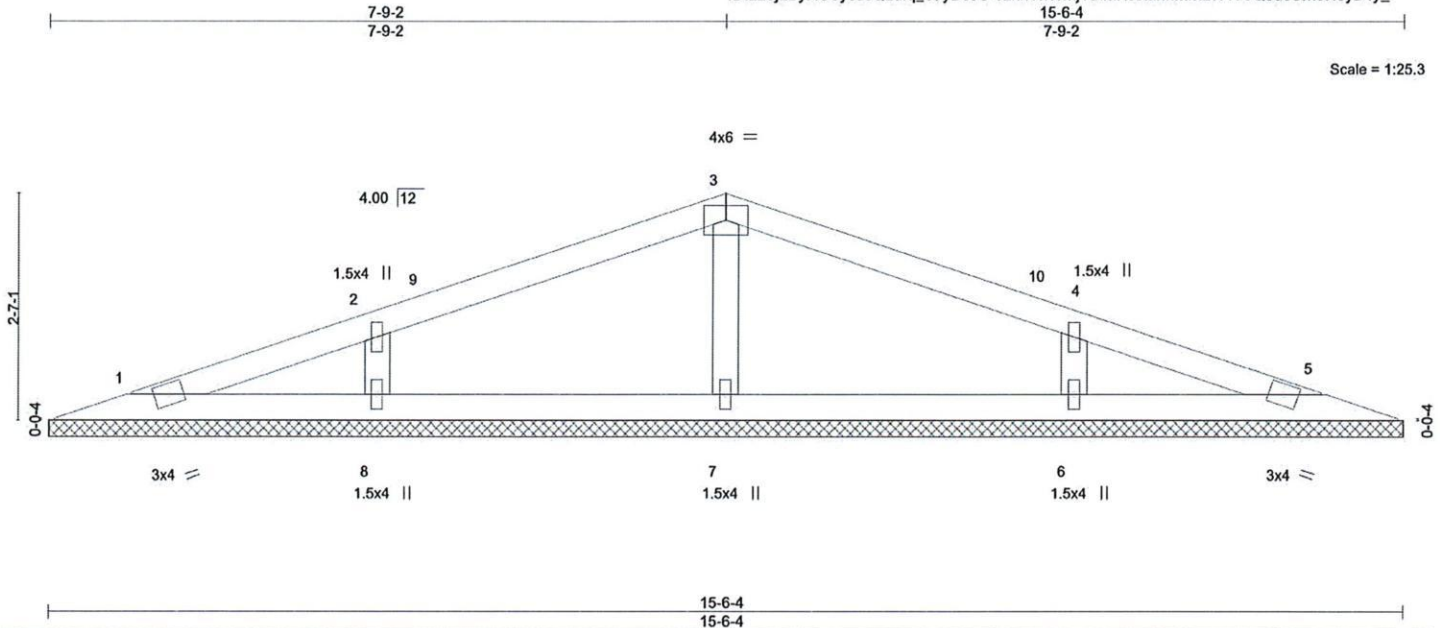


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.		PLATES	GRIP
TCLL 40.0		Plate Grip DOL	1.15	TC 0.28		in (loc)	l/defl	MT20	185/144
(Roof Snow=40.0)		Lumber DOL	1.15	BC 0.08		n/a	n/a		
TCDL 10.0		Rep Stress Incr	YES	WB 0.13		n/a	n/a		
BCLL 0.0 *		Code IRC2018/TPI2014		Matrix-SH		0.00	5		
BCDL 10.0								Weight: 39 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-6-4.
(lb) - Max Horz 1=43(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=104(LC 14), 6=104(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=435(LC 1), 8=668(LC 20), 6=668(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-7=-355/117, 2-8=-582/198, 4-6=-583/198

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 4-5-5, Interior(1) 4-5-5 to 7-9-2, Exterior(2R) 7-9-2 to 11-3-2, Interior(1) 11-3-2 to 14-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 8=104, 6=104.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**REVIEWED FOR
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ONLY**



December 8, 2020

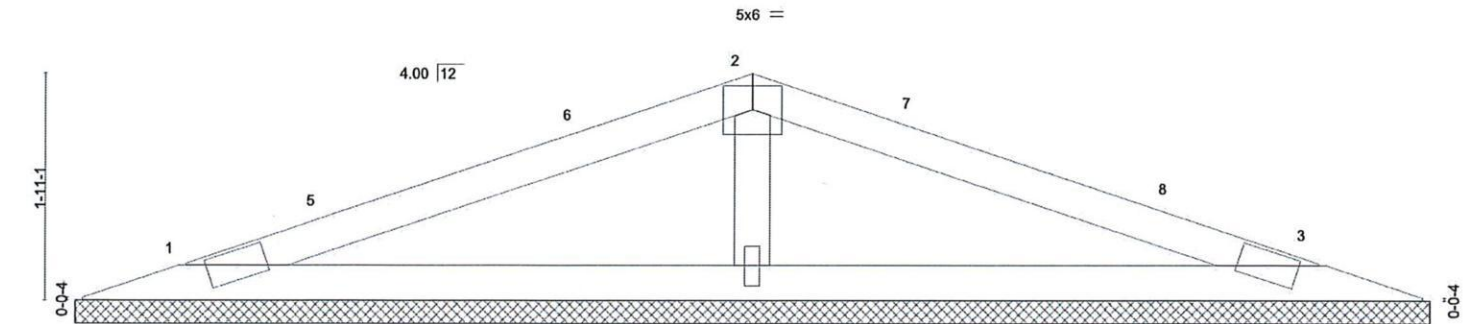
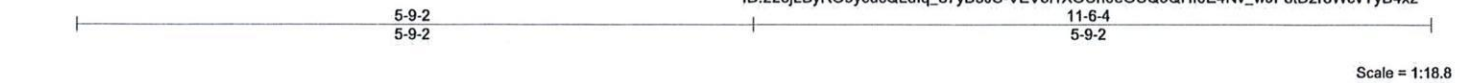
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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job 105780	Truss V3	Truss Type DROP GABLE	Qty 1	Ply 1	Yavapai County 1 Bedroom	R64673588
Ballard Truss LLC, Snowflake, AZ - 85937,						8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:06:56 2020 Page 1
						ID:226jLBByRO9ycucQLuLq_87yB5JS-VEV311XOUh0eOUQ3QH10E4Nv_wFotD2r8WcvYyB4xz



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.15	TC 0.45	Vert(LL)	n/a	-	n/a	MT20	185/144
(Roof Snow=40.0)	Lumber DOL	1.15	BC 0.32	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-SH					Weight: 26 lb	FT = 10%
BCDL 10.0									

LUMBER-
TOP CHORD 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF 1650F 1.5E
OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=11-6-4, 3=11-6-4, 4=11-6-4
Max Horz 1=30(LC 14)
Max Uplift 1=45(LC 10), 3=48(LC 15), 4=59(LC 10)
Max Grav 1=351(LC 20), 3=351(LC 21), 4=661(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-468/252

- NOTES-**
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed;
MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 4-5-5, Interior(1) 4-5-5 to 5-9-2, Exterior(2R) 5-9-2 to 9-3-2,
Interior(1) 9-3-2 to 10-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.0
3) Unbalanced snow loads have been considered for this design.
4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is
the responsibility of the fabricator to increase plate sizes to account for these factors.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tan by 2-0-0 wide
will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
referenced standard ANSI/TPI 1.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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ID:226jLByRO9ycucQLuLq_87yB5JS-JEV31XOU0eOUQ3QHI0E4NzwmwKxous2r8WcvYyB4xz
3-9-2 7-6-4
3-9-2 3-9-2



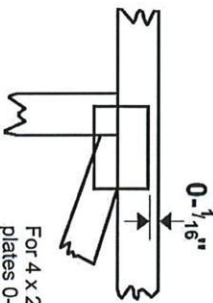
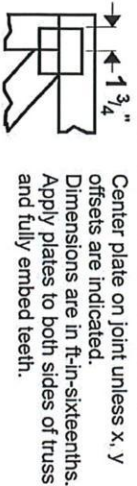
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



MITek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- 1/8" from outside edge of truss.

—
—
This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MiTek 20/20** software or upon request.

PLATE SIZE

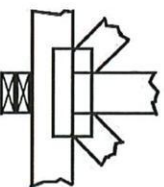
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



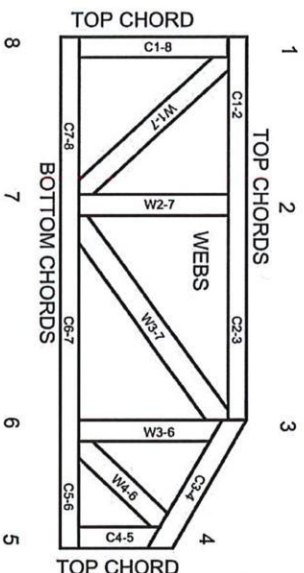
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MIL-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.

2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.

4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

5. Cut members to bear tightly against each other.

6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.

7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.

8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.

11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.

12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.

13. Top chords must be sheathed or purlins provided at spacing indicated on design.

14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.

15. Connections not shown are the responsibility of others.

16. Do not cut or alter truss member or plate without prior approval of an engineer.

17. Install and load vertically unless indicated otherwise.

18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.

19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.

20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.

REVIEWED FOR DESIGN CRITERIA ONLY